

The Theory of Detonation in Gases, by Ya. B. Zeldovich,
24 pp.

RUSSIAN, per, Zhur Tekh Fiz. Vol XVII, No 1, 1947,
pp 3-26.

TIL/T5144

Sci. & Techn.

217,627

Nov 62

217,627 NLR M. 5311

Renne, V. T.
RATE OF SELF-DISCHARGE AS A CRITERION FOR
ESTIMATING THE VALUE OF A PAPER CONDENSER
WITH D. C. POTENTIAL. 3 Nov 47, 5p. (figs. refs.
omitted).

Order from OTS or SLA \$1.10

62-20345

Trans. of [Zhurnal Tekhnicheskoi Fiziki] (USSR) 1947,
v. 17, no. 1, p. 37-42.

DESCRIPTORS: *Paper capacitors, Direct current,
Measurement, Dielectrics, *Electric potential, Electric
cal conductance, Ionization, Electric discharges.

Investigation was made of the phenomenon of self-dis-
charge of paper condensers as well as a suggestion to
apply the rate of self-discharge as a criterion for the
evaluation of the quality of these condensers when
(Physica--Electricity, TT, v. 9, no. 10)

62-20345

I. Renne, V. T.

Office of Technical Services

ZHURN TEKHN FIZ Vol XVII, No 1

Jan 1947

4 pp

"On the Mechanism of the Electrification of Certain
Artificial Aerosols (Smoke)"

A. M. Furman

Avail at Brookhaven
See Guide to Russ Sci Per Lit,
Vol 1, No 7, page 51.

2T42

✓
The Phenomena of Accommodation of Magnetic
Permeability of Magnetite, by A. M. Vyukhina, et
al, 26 pp.

RUSSIAN, no par, Zhur Tekh Fiz, Vol XVII, No 2,
1947, pp 129-142.

Sci Tr Center RT-2889

Scientific - Physics
Jan 56 CTS/dex

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The Synchroniztion of a Tube Oscillator by
a Harmonic of the Fundamental Frequency,
by O. A. Tkhorzhevski, B. K. Shembel'

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, 1947,
pp 215-230.

AEC Tr 1118

Scientific - Physics

Zhur Tekh Fiz Vol XVII, No 2

Feb 1947

4 pp

"The Condition of Self-Excitation of Tube Oscillators
with Coupling and the Frequency of Oscillations
Generated in Them, with an Account of Inertial Pro-
cesses in Tubes"

E. S. Antselevich

Proj 1596

D-3-50 F 2 4130-49

Abstr of Tech Intell Doc (Navy) CIA 314572

NA London Ser 11496-49 by Min of Supply ID 555753

P 20972T 29 Apr 1949

11T20

ZAKHAROVSKIY, D. M.

Zhurnal Tekhnicheskoi Fiziki, vol. 17, No. 3, 6
figures, 900 words; 1947.

Ductile, Brittle, and "Border" Cracks in Impact
Test Pieces.

Butcher Trans, Order No. 2151.

On the Chemical Composition of Antimony-Caesium
Layers, by N. S. Khlebnikov, 12 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1947, Vol XVII, No 3,
pp 333-340.

Sci. Mus Lib No 52/3254

Scientific - Physics

27 December 1958

On the Photoelectric Properties of Antimony-Cesium Cathodes in Transmitted Light as a Function of the Layer Thickness, by D. M. Khorosh, 13 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1947, Vol 17, No 3, pp 341-348.

Sci Mus Lib No 52/3257

Scientific - Physics

27 December 1952

ZHUR TEKH FIZ Vol XVII, No 4

Apr 1947

8 pp

"The Possible Power of Electrical Viscous Waves"

M. A. Levitskaya

Available at Brookhaven
See Guide to Russ Sci Per Lit,
Vol 2, No 3, Page 118

11T10

On the Use of the Geiger-Muller Counter for the
Chemical Analysis of Small Contents of Elements in
Various Materials, by H. D. Borisov, Ya. M. Fogel.

RUSSIAN, per, Zhurn tekhn ~~fiz~~, Vol XVII, No 5, 1947.

Butcher Tr No 2015

Scientific - Chemistry

\$8.90

14,698

Molecular Theory of Friction, by, V. S. Sh^chedrov,
7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 3, USSR,
pp 337 - 342, 1947.

NRL 107

CIA 9857 237761

A Study of the Dependence of the Resistance of Metal
and Amorphous Substances to Plastic Deformation on
the Speed of Deformation and the Temperature, by L. D.
Sokolov, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVII, 1947, pp
543-548.

ABC Tr 3075

Sci - Phys

55, 756

Nov 57

Resistance

Electrical ~~XXXXXXXXXXXX~~ Iron-Chromium-Carbon
Alloys at High Temperatures, by M. E. Blanter.

1947,
RUSSIAN, ~~Izvestiya~~ Tekhn. Fiz., Vol XVII, No 5, ~~1947~~
pp 549-550.

Bratcher Tr No 2738

14,937

Scientific - Min/Metals

\$5.60

Borisov, N. D. and Fogel, Ya. M.
DE TOEPASSING VAN EEN GEIGER-MÜLLER TEL-
LER VOOR DE CHEMISCHE ANALYSE VAN VER-
SCHILLENDE ELEMENTEN BIJ LAGE CONCENTRA-
TIES (Use of the Geiger-Müller Counter in the Chemi-
cal Analysis of Small Concentrations of Elements in
Various Substances). 20p. 12 refs. MTWL: 59.
(text in Dutch).
Order from OTS or EIC: \$1.85

61-17657

Trans. of Zhurnal Tekhnicheskoi Fiziki (USCR) 1917,
v. 17, p. 599-612.

DESCRIPTORS: Radiation counters, *Geiger counters,
*Chemical analysis, Chemical elements, *X-ray
spectroscopy.

61-17657

I. Borisov, N. D.
II. Fogel, Ya. M.
III. MTWL-59
IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

The Occurrence of Detonation in
Gases in Rough Tubes, by K. I. Shchelkin. UN CL

RUSSIAN, per, Zhur Tekh Fiz, No 5,
1947, pp 613-1618.

TIL 4546

Sci - Phys
Mar 60

111/5110 T 2113

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The Factors Influencing the Intensity of Spectral Lines
in Flames During Spectral Analysis, by V. G.
Alalucyeva, S. L. Mandel'shtam, 28 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 7, 1947,
pp 765. 9216104

AEC-Tr-6071

Sci - Phys
Jan 64

246, 310

Influence of the Electric Circuit on Oscillations
in the ABC Discharge at Low Pressure, by T. A.
Gustin, 9 pp.

RUSSIAN, per, Izvestiya Akad. Nauk SSSR, Vol XVII, 1947,
pp 809-818.

ABC Tr 2621

Sci - Electricity, physics 40, 480
Nov 56 OCS

Orientation of Cementite in Tempered Carbon Steel,
by I. V. Tsaichev

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 7, 1947,
pp 835-838.

RECORDED TR 1220
Brutcher Tr 3213

Scientific - Minerals/Metals
CTS/DEX

Price \$2.80

X AEC

9243

ZHUR TEKH FIZ

Vol XVII, No 9, 1947, 17 pp

"Emission of an Oxide Cathode"

S. V. Ptitsyn

Available at *Brookhaven

See Guide to Russ Sci Per Lit, Vol 2, No 3, P. 118

AMC F-TS-7046-RE

40T82

On Diffusion Constants, by S. Gerzricken,
I. Deghtyar.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 8,
1947, pp 871-880.

DSIR LLU M. 1666

Sci - Phys

Oct 61

170, 753

The Influence of a Third Element on Diffusion in
the Solid State, by S. Gerzricken, I. Deghtyar.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 8,
1947, pp 881-890.

DSIR LLU M. 1665

Sci - Phys

170, 752

Oct 61

ZHUR TEKH FIZ

Vol XVII, No 9, 1947, 4 pp

"Auto-electronic Emission of Complex Semiconducting Cathodes"

N. D. Morgulis

Sci. Tech. N° 462

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25938
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40T90

The Temperature Dependence of Ice Viscosity,
by V. V. Lavrov, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 9,
1947, pp 1027-1034.

Sci Tr Center
RT-2228

Scientific - Physics

(TS 69/Jun 55

24, 7/4

ZHUR TIKH FTZ Vol XVII, No 10, 1947 Oct 1947

6pp

"Phenomenon of Improving Semiconductors by Current
Carriers Under the Effect of Contact Field" 17 pp

V. I. Lyushenko, A. M. Pavlenko

AEC/BNL/tr-123

RT-4062

49181

LEVITAS, D. M.
MIGULIN, V. V.

The Operation of a Blocking Oscillator,

RUSSIAN, Zhur Tekh Fiz, Vol XVII, No 10, 1947, pp 1171 -
1180.

ABC Tr 567

ZHUR TEXH FIZ Vol XVII, No 10

Oct 1947

"Surface Ionization of Barium on Tungsten"

5¹/₄ pp

G. A. Morozov

AEC/BNL/tr-125

AEC Tr-98

AEC Trans

List dated 20 Jan 50

49T82

IVENSEN, V. A.

Zhurnal tekhn. fiziki, vol. 17, No. 11, 8 figures,
12 tables, 5600 words; 1947.

Investigation of Process of Density Increase in the
Sintering of Single-Phase Metal Powder Compacts.
Part 1.

Brutcher Trans, Order No. 2119, \$8.40.

Threshold of Colour Contrast at Constant
Brightness, by S. O. Maizel.
RUSSIAN, PM, Zh. Tekh. Fiz., Vol 17, No 11,
1947, pp 1253-1268.
NLL 5828.4F (11692)

Sci - Phys
Aug. 67

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Sept.

On the Excitation of Waveguides-I, by A. A. Samarskiy,
A. N. Tikhonov, 24 pp.
RUSSIAN, per, Zh Tekh Fiz, Vol 17, 1947, pp 1283-1296.
AEC/BNL-Tr-300-69

Sci/Elec
Feb 70

402,548

Diffusion of Carbon in Austenite, by M. E. Blanter.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 11, 1947,
pp 1331-1340.

Brutcher Tr No 2263

Scientific - Min/Metals

14934

Excitation of Waveguides. II(1), by A. A. Samarskiy,
A. N. Tikhonov, 16 pp.
RUSSIAN, per, Zh Tekh Fiz, Vol 17, No 12, 1947,
pp 1431-1440.
AEC/BNL-Tr-308-69

Sci/Elec
Feb 70

402,547

On the Analysis of the Noise of a Moving
Aircraft, by K. A. Velzhanina, G. N. Rzhevkin,
8 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol. XVII, No 12,
1947, pp 1483-88 1490. Rel to IR 1711-56.
AF041V-1A1

~~AP041V-1A1~~ 1036007

AF

40,863

Sci - Aeronautics

Influence of Grain Size Upon Diffusion of Nitrogen,
by A. G. Andreeva, I. E. Kontorovich, A. A.
Sovaleva.

Full translation.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 12, 1947,
pp 1521-1526.

Brutcher Tr 3010

Scientific - Nitriding, steel

The Molten Metal Boil in the Bath of a Steel
Refining Furnace, by V. S. Kocho,
RUSSIAN, per. Zh. Tekhn. Fiz., Vol 47, No 12,
1947, pp 1527-1530.
BISI 9097

Jun 71

SHEVKELEV, A. K.

Zhurnal Tekhnicheskoi Fiziki, vol. 18, No. 1, 1
figure, 5 tables, 1900 words; 1948.

Influence of Boron upon Structure of High Speed
Steel.

Bratcher, Trans. (Order No. 2138, \$3.35

ZHUR TEKH FIZ Vol. XVIII, No 1

Jan 1948

"Thermoelectric Study of Certain Processes Taking
Place in Alloys: I" 11 pp

Yu. M. Margolin

Brockhaven Nat'l Lab
Vol 2, No 9 Guide

44T68

Effect of Degree of Deformation on the Relation
Between Stress and Speed, by L. D. Sokolov, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVIII, 1948,
pp 93-97.

ABC Tr 3079

Sci - Phys

Nov 57

518-10-35, 757

YAKOVLEVA, E. S.
YAKUTOVICH, M. V.

Zhurnal Tekhn. Fiziki, vol. 18, No. 1, 1
figure, 2000 words; 1948. *CT 4 D 911 339*

Development of cracks in steel during
Martensite Transformation.

Bratcher, Trans. Order No. 2134, \$3.00

NEKHOMOV, S. A.

Zhurnal Tekhnicheskoi Fiziki, vol. 18, No. 2,
3300 words; 2 tables; 1948.

Character of Interatomic Binding Forces in
Phases Formed by Transitional Metals with Light
Metalloids.

Butcher Trans, (Order No. 2201, \$ 5.75.

ZHUR TEKH FIZ Vol XVIII, No 2 Feb 1948

"Distribution of Deformation According to Volume in
Metallic Crystals during their Deformation by Sliding"

10 pp

D. G. Kurmosov, N. M. Tronina, M. V. Yakumovich

AEC Tr 294
Brookhaven

44T 63

YATCHEVICH S. M.
YATCHEVICH V. M.

Thermal Treatment of Steel, vol. 18, 1949, No. 1,
pp. 207-210, 4 figures, 1 table, 1500 words.

Resil and Strengths in Carbonized Steel Plates
Quenched from Below AC.

Butcher Trans, Order No. 2127, \$5.65

The Texture of Iron Scale, Part IV: Investigation of
Temperature Range of 930 to 1470° F, by V. I.
Arkharov, F. P. Butra.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVIII, No 2,
1948, pp 211-214.

Butcher Tr 2869

Scientific - Physics

12,847

Nemmonov, S. A.
HEXAGONAAL CHROOM EN DE STRUCTUUR VAN
ELECTRISCH AFGESCHIEDEN CHROOM (Nature of
Hexagonal Chromium and Structure of Electrolytic
Chromium Deposits) tr. by J.H. van Santen. 10p.
MTWL: 898, (text in Dutch).
Order from OTS or ETC \$1.55

61-17607

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1948,
v. 18, p. 239-246.

DESCRIPTORS: *Chromium, Electricity, Metallurgy,
*Crystal structure.

61-17607

- I. Nemmonov, S. A.
- II. MTWL-898
- III. Stichting Mogelijk.
Toegankelijke Wetenschap-
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HB 6 3493

Office of Technical Services

The Structure of Iron Scale, Part IV: Investigation of
Temperature Range of 930 to 1470° F., by V. I.
Arkhurov and P. P. Butra.

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RUSSIAN, Metall Tekh Fiz, Vol 18, 1948, No 2, pp 211-214

Butcher Tech Tr No 2869

YAKOVLEVNA, E. S.
YAKUTOVICH, N. V.

Zhurnal Tekhnicheskoi Fiziki, vol. 18,
No. 3, 4 figures, 1 table, 1500 words;
1948.

Residual Stresses in Carburized Steel
Plates Quenched from Below A_{c3}
Butcher, Trans. Order No. 2127, \$2.65

13 215

Ca-I

GORELIK B. V., DMITRIEV V. T.

On the electrical conductivity of mica in strong electric fields

Zhur. Tekhn. Fiz., 18, No. 3, p. 333 (1948)

TT 146 - English

E u r a t o m

The Loss of Atomization of Fluids in Centrifugal
Jets, by Novikov', I. I.

¹
RUSSIAN, par, Zhurnal Tekhnicheskoi Fiziki (USSR),
1968, Vol. 18, No. 1, pp 345-354.

Sci Museum Lib No 50/2803

The Rheological Properties of Calcium Greases,
by G. V. Vynogradov and K. I. Klymov, 43 pp.

RUSSIAN, Zhur Tekn Fiz, Vol 18, No 3, 1948
pp 355-376.

Sci Museum No 51/2754

Scientific - Physics

On the Method of Obtaining Alloys of Varying Concentration, by V. S. Kogan, B. Ya. Pines.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVIII(3), 1948, pp 377-382.

Filmer Research Institute
Tr. No 35 OT/413

Scientific - ~~Chemistry~~, concentration, alloys
Physics

Index Aeronauticus

ZHUR TEKH FIZ Vol XVIII, No 3

Mar 1948

"The Electrical Conductivity of Mica in Strong Electric
Fields" 7¹/₂ pp

B. V. Gorelik, V. T. Dimitriyev

AEC Tr. 288
Brookhaven

63T28

ZHUR TEKH FIZ Vol XVIII, No 3 Mar 1948

"The Problem of 'Real' Conductivity in Solid Dielectrics"
4 pp.

B. V. Gorelik, V. T. Dimitriyev

AEC Tr 287
Brookhaven

208 Z 033

63T29

ZHUR TEKH FIZ Vol XVIII, No 3

Mar 1948

"Regularities of the Breakdown of Liquids in Centrifugal
Jets" pp. 9¹/₄

I. I. Novikov

Sci Museum Lit 50/2803
(Trans. C. Lists, 20, '50)

63T94

TT-63-20980

Vinogradov, G. V. and Klimov, K. I.
RHEOLOGICAL PROPERTIES OF CALCIUM GREASES.
5 Aug 49 [20]p. 46rds
Order from OTS, SLA, or ETC \$1.60 TT-63-20980

I. Vinogradov, G. V.
II. Klimov, K. I.

Trans. of [Zhurnal Tekhnicheskoi Fiziki] (USSR) 1948,
v. 18, no. 3, p. 355-376. (Abstract available)
Another trans. is available from LC or SLA ml\$3.30,
pb\$7.80 as TT-60-13734 [1960] [44p].

DESCRIPTIONS: *Greases, Calcium compounds, Vis-
cosity, Creep, Elasticity, Plasticity, Stresses

A method is described and results are given of a study
of the elasto-plastic properties of solids. The prop-
erties considered included: the character of the elastic
deformations under constant and variable loads; the
conditions of determination of the shear modulus of
greases; creep phenomena and elastic after-effect,
softening and hardening under stress, elastic hysteresis
(Materials--Lubricants, TT, v. 11, no. 4) (over)

Office of Technical Services

New Method of ~~XXXXXXXXXX~~ Investigating Plastic
Deformation of Ferrumagnetic Crystals, by N. S. Akulov,
N. Z. Miryusov.

RUSSIAN, per, Zhurnal Tekh. Fiz, Vol XVIII, No 3, 1948,
pp 389-394.

Butcher Tr 2735

Scientific - Physics

\$3.80

108, 662

An Accurate Solution of Leugmuir's Problem for
a Spherical Capacitor, by V. L. Kan.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVIII, No 4,
1948, pp 483-494.

T.I.L. T-4639

Sci - Physics

34,481

May 1956

ZHUR TEKH FIZ Vol. XVIII, No 4 Apr 1948

"The Form of a Field of Electrostatic Lenses" 8 pp

V. V. Sorokind, P. V. Timofeyev

NRL Translation 184
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64T90

ZHUR TEKH FIZIKI VOL XVIII, No 5

May 1948

6 pp

"The Problem of Ionization of Atoms and Neutralization
of Ions on the Surface of a Semiconductor Cathode"

N. D. Morgulis

Brookhaven Nat'l Lab
Guide Vol 2, No 9

75M100

ZHUR TEKH FIZIKI

Vol XVIII, No 5, 1948
pp 653-656 4 pp

"Excitation of a Semi-Infinite Radio Wave Guide
Through a Slit in the Base"

M. L. Levin

CTC-61-17349

Available at Brookhaven

See guide go Russ Sci Per Lit, Vol 2, No 3, Page 118

75T101

Shaw and Fey
Cal (XVIII) #5
1937-42 (1947)

Molecular Theory of Friction

V. S. Lichner

ALL Sec. # 167
(Copy in Director's file)

FSTC HT-23-79-68

R-9387-D SF

26 Apr 68

Reflections of Spherical Waves at Weak Interfaces

By:

From: Journal of Technical Physics (USSR), V. 8, 1968:
473-483 (10 pp)

Russian -- est for wds:

Please translate and type 1 camera ready copy. Please
prepare Data Handling Page. Document can be cut.
To Typist: Please make covers as samples attached: 4
hard covers, 1 inside cover, distribution list as the
last page of translation. HT-23-79-68
DC Office make 3 xerox copies.

Use of a Discharge in a Gas for the Preparation
of Glass Surfaces in Aluminizing, by
V. N. Rozhdansvenskiy, 5 pp.

RUSSIAN, per; Zhur Tekh Fiz. Vol XVIII, No 5, 1948,
pp 579-584.

ACSI I-8303
ID 2227631

Sci - Phys
Mar 63

226,636

A Calorimeter for Determination of Specific and
Latent Heats at High Temperatures, by V. A. Skolov.

RUSSIAN, per, Zhur Tikh Fiz, Vol XVIII, No 6,
pp 813-822, 1948.

NIL. M-4541

Sci - Phys

Apr 62

193,895

Research Investigation of the Ageing of Aluminum Alloys,
by M. A. Bagaryatskiy.

1948, per. Zhur Tekh Fiz, Vol XVIII, No 6, 1948,-
p 827-830.

Fulmer Research Institute
12
P 222177

Scientific - Physics

15,046

On the Kinetics of Two-Phase (Eutectic)
Crystallization, by B. Ya. Pines, 21 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVIII,
No 6, 1948, pp 831-842.

SLA 60-16953

Sci
Vol IV, No 8
2 Jun 62

198,012

Characteristics of the Retentive Column in Gas
Mixtures, by A. A. Zaitsev, 7 pp.

RUSSIAN, ~~see~~ per, Zhur Tekh. Fiz., Vol XVIII,
No 7, 1948, pp 949-954.

Sci Tr Center
RT-1445

Scientific - Physics

18, 916

ZHUR TEKH FIZ VCL XVIII, No 8

Aug 1948

26 pp

"Nondiffused (Martensitic) Type of Conversion in Alloys"

G. V. Kurdyumov

Brookhaven Nat'l Lab
Vol 2, No 9

10/49T94

KURDYUMOV, G. V.

Journal of Technical Physics, USSR, vol. 18, no. 8,
7 figures, 1 table, 3500-word part translation; 1948.

Diffusionless (Martensitic) Transformations in
Alloys. Part I

ATSC-53

Butcher Trans, Order No. 2300, \$4.90

Two Methods for Determining the Illumination From
Large Surfaces, by E. G. Yurov, 22 pp.

RUSSIAN, per, Zhur Iakh Fiz, Vol XVIII, 1948,
pp 1073-1083.

SLA 60-13737

Sci

190, 282

Apr 62

Vol IV, No 6

Shrinkage and Properties of Powder Compacts as
Function of Their Density, by M. Yu. Eal'shin.

RUCSTAN, per, Zhurnal Tekh Fiz, Vol XVIII, No 9,
1948.

Brutcher Tr No 2227

Scientific - Min/Metals

\$4.55

15,032

The Causes of the Phenomenon of Metastable States During Crystallization, (Does Ostwald's Law of Stages Hold Good in the Crystallization Theory?), by N. N. Sirota, 16 pp.

RUSSIAN, per, Zhur Tekh Fiz. Vol XVIII, No 9, 1948, pp 1136-1148.

SLA 60-13729

Sol
Aug 61

163,147

OTS, Vol III, No 12

Kostenets, V. I., Lazarev, B. F. and others
RESILIENCE OF METALS AT -253° C. [1963]
[12]p. (refs. omitted).
Order from OTS or SLA \$1.60

63-14488

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR)
1948, v. 18, no. 9, p. 1149-1155.

DESCRIPTORS: *Metals, *Elasticity, Mechanical
properties, *Low temperature research, Copper,
Brass.

A rapid measuring method of the resilience of samples
at temperatures of liquid nitrogen and liquid hydrogen
(-196° and -253° C) is presented. Resilience measure-
ments were made at -196° and -253° C on three types
of metals: Copper M-3, brass LS-62 and brass LS-59.
(Author)

(Metallurgy, T.T. v. 10, no. 2)

63-14488

I. Kostenets, V. I.
II. Lazarev, B. F.

Office of Technical Services

Magnetic Susceptibility of an Austenitic Steel, by N.
Sviridova, G. V. Estulin.

Full translation.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol XVIII,
No 9, 1948, pp 1207-1209.

Butcher Tr No 2061

CSH

Scientific - Magnetic, austenitic, steel

Investigation of Process of Density Increase of
Single-Phase Metal-Powder Compacts. Part III: Re-
lationship Determining the Volume Changes of Metal-
Powder Compacts During Sintering (in Reply to M. Yu.
Bal'shin), by V. A. Ivensen.

1948,
RUSSIAN, per, Zhur Tekh Fiz, Vol XVIII, No 10, ~~1948~~
pp 1290-1305.

Brutcher Tr No 2987

Scientific - Min/Metals

Dec 54 CTS/DEX

14,736

\$9.80

Properties of Poorly Conducting Layers Between the
Metal and the Semiconductors, by V. E. Lashkarov,
20 pp.

RUSSIAN, er, Zhur Tekh i Fiz, Vol XVIII, No 11,
1948, pp. 1347-1355.

SIA Tr R-1005

Sci - Electronics
Jan 58

58,183

ZHUR TEKH FIZ

Vol XVIII, No 11, ~~4~~ pp, Nov 48

"Physical Properties of Silver Sulfide Photoelements"

V. Ye. Kosenko
Ye. G. Miselyuk

Available at Brookhaven

See guide to Rus Sci Per Lit, Vol 2, No 4, Page 156
" " " " " " " Vol 2, No 8, Page 288
" " " " " " " Vol 2, No 11, Page 381

18/49T107

ZHUR TENH FIZ

Vol XVIII, No 11, 16 pp, Nov 46

pp. 1378-1393

"Radiation Through Gaps of Hollow-Space Oscillations as
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